

Appl. No. 10/059,700

Rcply to Examiner's Action dated June 3, 2005

IN THE SPECIFICATION:

1. Please amend paragraph 0009 to read as follows:

[0009] To address and overcome the existing limitations in RFID tags of cost, data capacity and reliable range, a new type of RFID tag technology has been developed. This new technology is described in detail in U.S. Patent Application Serial No. _____, entitled No. 10/024,624, entitled "Surface Acoustic Wave Identification Tag Having Enhanced Data Content and Methods of Operation and Manufacture Thereof," by Hartmann, commonly assigned with the invention and incorporated herein by reference. To take advantage of this promising new technology, it is imperative to economically manufacture the RFID tags described by Hartmann.

2. Please amend paragraph 0026 to read as follows:

[0026] Referring initially to FIGURE 1, illustrated is a plan view of a top surface 105 of a substrate 110 of an embodiment of a SAW identification tag 100 representative of those formed on piezoelectric wafers manufactured in accordance with the present invention. A description of the illustrated SAW identification tag 100 is presented to provide assistance in understanding the use of silicon or micro-electronic processing techniques to manufacture piezoelectric wafers of SAW identification tags 100. For a detailed explanation of SAW identification tags 100 of the type illustrated see U.S. Patent Application Serial No. _____, entitled No. 10/024,624, entitled "Surface Acoustic Wave Identification Tag Having Enhanced Data Content ~~And~~ and Methods of Operation And Manufacture Thereof," by Hartmann, commonly assigned with the invention and incorporated herein by reference.

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3. Please amend paragraph 0027 to read as follows:

[0027] Located at one end of the surface 105 of the SAW identification tag 100 is a transducer 115. As those of ordinary skill in the pertinent art will recognize, the transducer 115 may be located in other positions on the surface 105 and still be within the intended scope of the present invention. When the transducer 115 is electrically connected to a means for obtaining an interrogation signal from a SAW identification tag reader (*e.g.* via an antenna), a signal having a known frequency and amplitude is generated that travels down the substrate 110 as a surface acoustic wave or SAW. For a detailed description of a SAW identification tag reader see U.S. Patent No. 6,708,881 B2 to Hartmann, entitled Application Serial No. _____, entitled "Reader For a High Information Capacity Saw Identification Tag and Method of Use Thereof," by Hartmann, commonly assigned with the invention and incorporated herein by reference.

4. Please amend paragraph 0029 to read as follows:

[0029] When a SAW signal is generated, it proceeds along the length of the substrate 110 until it encounters a reflector 120 that reflects a portion of the signal. The unreflected portion of the SAW signal continues along the substrate 115 and generates additional reflected signals from all succeeding reflectors 120 to create the complete modulated reflected response unique to that SAW identification tag 100. The transducer 115 converts this complete modulated reflected response back to an electrical signal that is returned to the reader by a suitable means (*e.g.* an antenna). This response is then decoded or demodulated to reveal the specific SAW identification tag 100 number. ~~The method of determining a SAW identification tag 100 number is described in more~~

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~~detail in U.S. Patent Application Serial No. _____, entitled "Basic High Bit Capacity Modulation System," by Hartmann, commonly assigned with the invention and incorporated herein by reference.~~